

Official Stamp of Attendance Goes Here

***Student Notes***  
***Science on Saturday***  
***Lawrence Livermore National Laboratory***  
***March 18, 2006***

***Life On Earth: Instructions in Three  
Billion (tiny) Letters or Less?***

Dr. Daniel Barsky  
Senior Biomedical Scientist  
Bioscience Directorate  
Lawrence Livermore National Laboratory

Frankie Tate  
Science Teacher  
Granada High School  
Livermore Valley Joint Unified School District

1. Proteins are essential molecules for life on earth. What are some examples of the roles proteins play in living organisms?
2. What is meant by the “Central Dogma” in biology?
3. The building blocks of proteins are \_\_\_\_\_.
4. What determines the sequence of amino acids in a protein?
5. What determines a protein’s function?
6. How do molecules find other molecules?
7. How do changes in the DNA sequence of a gene (a mutation) affect the protein product?
8. Are such changes to the DNA always bad?

**Frankie Tate, Science Teacher at Granada High School, prepared the Student Notes Worksheet**